Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	16	(calculat\$5 with (collision adj rate))	USPAT	OR	ON	2005/04/18 13:30
L2	8	(calculat\$5 with (collision adj rate)) and (network with collision)	USPAT	OR	ON	2005/04/18 13:46
L4	18	(US-5706462-\$ or US-5819028-\$ or US-5864558-\$ or US-5974237-\$ or US-6078568-\$ or US-6078591-\$ or US-6115393-\$ or US-65222850-\$ or US-6529520-\$ or US-6584177-\$ or US-6587453-\$ or US-6651099-\$ or US-6697013-\$ or US-6700876-\$ or US-6704284-\$ or US-6718384-\$ or US-6754176-\$).did.	USPAT	OR .	ON	2005/04/18 13:31
L5	2	(calculat\$5 with (collision adj rate)) and (network with collision) and (contention with window)	USPAT	OR	ON	2005/04/18 13:33
L6	3	(calculat\$5 with (collision adj rate)) and (network with collision) and (contention with window)	US-PGPUB	OR	ON	2005/04/18 13:34
L7	0	(calculat\$5 with (collision adj rate)) and (network with collision) and (contention with window)	EPO	OR	ON	2005/04/18 13:34
L8	0	(calculat\$5 with (collision adj rate)) and (network with collision) and (contention with window)	JPO	OR	ON	2005/04/18 13:34
L9	0	(calculat\$5 with (collision adj rate)) and (network with collision) and (contention with window)	DERWENT	OR	ON	2005/04/18 13:35
L10	0	(calculat\$5 with (collision adj rate)) and (network with collision) and (contention with window)	IBM_TDB	OR	ON	2005/04/18 13:35
L11	6	(detect\$5 with (collision adj rate)) and (network with collision)	USPAT	OR	ON	2005/04/18 13:46
L12	3	(detect\$5 with (collision adj rate)) and (network with collision) and contention	USPAT	OR	ON	2005/04/18 13:46
L13	3	(detect\$5 with (collision adj rate)) and (network with collision) and (contention with window)	USPAT	OR	ON	2005/04/18 13:48
L14	0	(detect\$5 with (collision adj rate)) and (network with collision) and (contention with window)	EPO	OR	ON	2005/04/18 13:48
L15	0	(detect\$5 with (collision adj rate)) and (network with collision) and (contention with window)	JPO	OR	ON	2005/04/18 13:48
L16	0	(detect\$5 with (collision adj rate)) and (network with collision) and (contention with window)	DERWENT	OR	ON	2005/04/18 13:48
L17	0	(detect\$5 with (collision adj rate)) and (network with collision) and (contention with window)	IBM_TDB	OR	ON	2005/04/18 13:48
L18	3.	(detect\$5 with (collision adj rate)) and (network with collision) and (contention with window)	US-PGPUB	OR	ON	2005/04/18 13:48

L19	1080	370/414,447,458,461.ccls.	USPAT	OR	ON	2005/04/18 14:02
L20	3421	709/224,230,232.ccls.	USPAT	OR	ON	2005/04/18 14:04
L21	4494	19 20	USPAT	OR	ON	2005/04/18 14:04
L22	153	21 and (collision same contention)	USPAT	OR	ON	2005/04/18 14:04
L23	0	21 and (((calculat\$5 or detect\$4 or rate) with collision) same (contention adj window))	USPAT	OR	ON	2005/04/18 14:05
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2. IEEE 802.11 distributed coordination function (DCF): analysis and enhancement

Haitao Wu; Shiduan Cheng; Yong Peng; Keping Long; Jian Ma; Communications, 2002. ICC 2002. IEEE International Conference on

Volume 1, 28 April-2 May 2002 Page(s):605 - 609

IEEE XPLORE GUIDE

Results for "(((collision<paragraph>contention<paragraph>window)<in>metadata)) <and> (pyr >= 1950 <and> - e-mail pyr <= 2002)"

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		Check to search only within this results set					
iee Jnl	IEE Journal or Magazine	Displa	ay Format: . © Citation C Citation & Abstract				
IEEE CNF	IEEE Conference Proceeding	Select	Article Information				
IEE ONF	IEE Conference Proceeding		Performance analysis of the collision avoidance procedure of the advanced infra				
STO	IEEE Standard		CSMA/CA protocol for wireless LANs Vitsas, V.; Boucouvalas, A.C.; Vehicular Technology Conference, 2002. VTC Spring 2002. IEEE 55th Volume 3, 6-9 May 2002 Page(s):1502 - 1506 vol.3				
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1 Performance analysis of the advanced infrared (Alr) CSMA/CA MAC protocol for wireless LANs



V. Vitsas, A. C. Boucouvalas

September 2003 Wireless Networks, Volume 9 Issue 5

Full text available: Ddf(265.82 KB) Additional Information: full citation, abstract, references, index terms

Advanced Infrared (AIr) is a proposed standard of the Infrared Data Association (IrDA) for indoor infrared LANs. AIr Medium Access Control (MAC) employs Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA) techniques with Request To Send/Clear To Send (RTS/CTS) frame exchange to address the hidden station problem. A long Collision Avoidance Slot (CAS) duration, that includes the beginning of the CTS frame, is defined to cope with collisions caused from hidden stations. AIr MAC employ ...

Keywords: CSMA/CA, IrDA, optical wireless, performance evaluation, wireless LANs

Network protocols: An M/MMGI/1/K queuing model for IEEE 802.11 ad hoc networks Mustafa Özdemir, A. Bruce McDonald



October 2004 Proceedings of the 1st ACM international workshop on Performance evaluation of wireless ad hoc, sensor, and ubiquitous networks

Full text available: pdf(202.27 KB) Additional Information: full cliation, abstract, references, index terms

An M/MMGI/1/K queuing model is developed for the analysis of IEEE 802.11 DCF using RTS/CTS. Results are based on arbitrary contention conditions, namely, collision probabilities, transmission probabilities and contention window sizes vary arbitrarily among nodes contending for channel access. This is fundamentally different from earlier work. Results are presented for the fully-connected case and validated via simulation with statistical analysis. The main contributions are the analysis of DCF a ...

Keywords: IEEE 802.11, performance analysis, queueing theory

3 System design methodologies: ESACW: an adaptive algorithm for transmission power reduction in wireless networks



Hang Su, Peiliang Qiu, Qinru Qiu

August 2004 Proceedings of the 2004 international symposium on Low power electronics and design

Full text available: Rodi(158.46 KB) Additional Information: full extation, abstract, references, index terms

In this paper we propose a new algorithm for reducing the energy dissipation of a wireless ad-hoc network. We first show that the performance and energy dissipation is a function of the probability of packet collision, which can be varied by changing the minimum contention window (CWmin) parameter. Then we propose an algorithm, based on the IEEE 802.11 protocol, which can dynamically adjust CWmin for better performance and power. Experimental results show that, comparing to ...

Keywords: distributed coordination function, low power, wireless ad hoc network

4 Performance of ad hoc networks: A bidirectional multi-channel MAC protocol for improving TCP performance on multihop wireless ad hoc networks



Tianbo Kuang, Carey Williamson

October 2004 Proceedings of the 7th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems

Full text available: 📆 pdf(210.93 KB) Additional Information: full citation, abstract, references, index terms

The TCP protocol often suffers from performance problems in conventional single-channel multihop wireless ad hoc networks. The problems arise from hidden node and exposed node issues, which can lead to channel contention in the forward direction between TCP DATA packets that are part of the same TCP flow control window, as well as contention between TCP DATA and TCP ACK packets flowing in opposite directions. In this paper, we propose and evaluate a novel bidirectional multi-channel MAC protocol ...

Keywords: TCP performance, multihop wireless ad hoc networks, ns-2, simulation

5 ESACW: An Adaptive Algorithm For Transmission Power Reduction In Wireless Networks



Hang Su, Peiliang Qiu, Qinru Qiu

August 2004 Proceedings of the Proceedings of the 2004 International Symposium on Low Power Electronics and Design (ISLPED'04) - Volume 00

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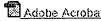
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In this paper we propose a new algorithm for reducing the energy dissipation of a wireless ad-hoc network. We first show that the performance and energy dissipation is a function of the probability of packet collision, which can be varied by changing the minimum contention window (CWmin) parameter. Then we propose an algorithm, based on the IEEE 802.11 protocol, which can dynamically adjust CWmin for better performance and power. Experimental results show that, comparing to the original protocol ...

Keywords: Wireless ad hoc network, low power, distributed coordination function

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collision contention window

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[PDF] A TCP-like adaptive contention window scheme for WLAN ...

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... adaptive contention window adjustment algorithm for 802.11. WLAN. We present simulation and ... light collision, the window goes to a lower level. ...

simulation and ... light collision, the window goes to a lower level. ..

www.mct.le.cuhk.edu.hk/wlan_icc_june_2004.pdf - Similar pages

[PDF] Dynamic Contention Window for Quality of Service in IEEE 802.11 ...

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... successful, a collision is considered to have occurred. In. this case, the CW

is doubled, ... reassigns and reshapes the contention window of different ...

www.szabist.edu.pk/NCET2004/Doos/ Session%20I%20Paper%20No%203%20(P%2012-16).pdf - Similar pages

[PDF] LA-DCF: A New Multiple Access Protocol for Ad-Hoc Wireless ...

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... used in the doubling of the contention, window after collision detection in.

CSMA/CD.) This new contention window ...

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[PDF] A Probability-based Algorithm to Adjust Contention Window in IEEE ...

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... that 802.11 DCF resolve collision through Contention. Window (CW) and back-off

stage. In the initial back-off, stage (stage 0), the value of CW has the ...

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[PDF] An effective collision resolution mechanism for wireless LAN ...

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... see that 802.11 DCF resolve collision through Contention. Window (CW) and

back-off stage (Fig. 2(a)). In the initial, back-off stage (stage 0), ...

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(PDF) Modified Backoff Algorithms for DFWMAC's Distributed Coordination ...

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... backoff window mechanism, that causes unequal collision probability distribution

... position of the selected slot within the contention window. ...

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[PS] Modified Backoff Algorithms for DFWMAC's 1 Distributed Coordination ...

File Format: Adobe PostScript - View as Text

... backoff window mechanism, that causes unequal collision probability distribution

... on the position of the selected slot within the contention window. ...

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[РРТ] Medium Access with Carrier Sense Multiple Access with Collision ...

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... Carrier Sense Multiple Access Collision Avoidance (802.11) in which each unit

senses ... control achieved by dynamically adjusting contention window cw ...

www.cs.ucla.edu/classes/ winter04/cs117/chap?wlanRvsd.ppt - Similar.pages

[РРП] Medium Access with Carrier Sense Multiple Access with Collision ...

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... In case of collision, the entire packet transmission time is wasted ...

Congestion control achieved by dynamically adjusting the contention window cw ...

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ppn A Unified Interference/Collision Analysis for Power-Aware Adhoc ...

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... Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA) ...

Contention window should be initialized to a larger value than currently suggested ...

eeoa2.sogang.ac.kr/class/2005_1/2005AdvancedTopic/ presentation/A_Unified_Interference.ppt - Similar pages

[PDF] A Novel MAC Protocol with Fast Collision Resolution for Wireless LANs

File Format: PDF/Adobe Acrobat - View as HTML

... (ie, a collision). In the FCR algorithm, the contention window. size of a

station will increase not only when it experiences a ...

www.ieee-infocom.org/2003/papers/21_03.PDF - Similar.pages

IPDFI A Unified Interference/Collision Analysis for Power-Aware Adhoc ...

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... both the energy consumed in collision resolution and the energy ... contention window should be set to a large initial value ...

www.isea-infocom.org/2004/Papers/13_2 PDF - Similar pages

PDF A Modified Time Synchronization Function in IEEE 802.11 Using ...

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... is the minimum contention window used in the backoff mecha- ... window to

reduce the beacon collision probability among them, ...

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[PDF] DYNAMIC TUNING OF THE CONTENTION WINDOW MINIMUM (CW.) FOR ENHANCED ...

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... assigning a short contention window to a high priority AC. ensures that in

most cases, ... probability of a new collision as shown in equation (1): ...

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(PDF) paperhsnmc'04 final.fm

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... how the contention window of each priority i is set after each collision ... no collision in the past (ie, lower bound of the adaptive contention window ...

team.loom.ch/LGE/cwmaxadaptation.pdf - Similar pages

грэт Mesh Restoration: Agenda

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... Random number is uniformly distributed over the contention window. Retry counter

... Carrier Sense multiple access with collision avoidance (CSMA/CA) ...

ranger.uta.edu/~basu/cse6347_spring05/ materials/5 IEEE802.11.ppt - Similar pages

грет Lecture 3

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... The contention window size is doubled whenever a collision occurs. A packet experiences i collisions 2i CWmin slots. IEEE 802.11 MAC Protocols ...

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(PPT) Testbed Results

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... if collision occurs (assume channel feedback, eg the receiver informs the source

... control achieved by dynamically choosing the contention window, CW ...

ecis.seattleu.edu/bkim/Śeminarsz003/SeminarNotes/ JKim%20Part%202%20-%20SU%202003%20Seminar%20July%2014-16.ppt - Similar.pages

рэп PowerPoint Presentation

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... Carrier Sense Multiple Access with Collision Detection ... transmitting a

packet, choose a backoff interval in the range [0,cw]; cw is contention window ...

www.cs.tut.fi/kurssit/83390/seminar2.pps - Similar pages

[PDF] Microsoft PowerPoint - wireless-new.ppt

File Format: PDF/Adobe Acrobat - View as HTML

... collision at B, A cannot detect the collision (CD fails) ... range [0,cw]; cw is contention window. Count down the backoff interval when medium is idle ...

www.cs.tul.fi/kurssit/5305010/luennot/wireless-new.pdf - Similar.pages

ррп QoS Provisioning in IEEE 802.11 LANs (MTP First Stage Report)

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... Contention Window Parameters. Max. TXOP duration (TXOPLimit) ... All the calculations are dependent on collision probability ...

www.it.litb.ac.in/~kirang/academic/ MTP/Firststage/MTPFirstStage1.ppt - Similar pages

(PDF) QoS Provisioning in IEEE 802.11 LANS

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... Contention Window Parameters. Max. TXOP duration (TXOPLimit) ... collision

probability is dependent on CW. Hence CW parameters ..

www.it.litb.ac.in/~kirang/ academic/MTP/Firststage/slides.pdf - Similar.pages

[POF] MobiHoc Poster: DSCR - A Wireless MAC Protocol Using Implicit ...

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... resents contention window). This backoff counter corre- ... stage contention

resolution algorithm to reduce collision, probability and achieve better ... portal.acm.org/ft_gateway.cfm?id=961280&type=pdf - Similar cages

[PDF] A Hybrid Collision Avoidance Scheme for Ad Hoc Networks

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... contention they experience. Our hybrid collision avoidance scheme is built around the ... its fair share, the node doubles its contention window (CW) ... portal.acm.org/fi_gateway.cfm?id=1012211&type=pdf - Similar.pages [More results from porial scm are]

CMPUT 313, Assignment 2, Fall 2004 [Initial DRAFT] Comparison of ...

... a contention-based, a limited contention and 2 collision-free protocols. ...

N. The contention window is equal to 1 slot (regardless of the value of N). ...

www.cs.uaiberia.ca/~harms/ COURSES/C313/C04/assignment2.html - 11k - Cached - Similar pages

[РРТ] Quality of service and mobility

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... collision. shortest backoff time. exponential. backoff. 10. Contention ...

Contention Window: uniform distribution [0, CW] * SLOT ...

www.eurecom.fr/~nikaeinn/ madnet2003/perf-602_11-madne-proct.ppt - Similar cases

(PPT) Slide 1

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... If a collision occurs, stop and then start talking after a random back off time

... 802.11 Adaptive Contention Window. 802.11 adaptively sets cw ...

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(POF) Microsoft PowerPoint - wireless-medium-access ppt

File Format: PDF/Adobe Acrobat - <u>View as HTML</u> ... If a collision occurs, stop and then start talking after a random back off time

... 802.11 Adaptive Contention Window. 802.11 adaptively sets cw ...

www.cnds.jhu.edu/research/networks/larchipelago/class-slides/wireless-medium-access.pdf - Similar pages

[РРП] www.crhc.uiuc.edu/~kyasanur/presentations/misbehav...

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... Possible Misbehavior. Backoff selected from smaller range than [0,CW].

Obtain higher transmission rate. Contention Window not doubled after collision ...

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[PDF] Homework 2 - Solution ECE 498NV Wireless Networks (Fall 2004) TA ...

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... throughput as we have identical contention window sizes for both nodes. ...

a packet in the same time-slot, we consider that collision occurs and the ...

www.crhc.uiuc.edu/~nhv/498nv/hw2_sol.pdf - Similar.pages

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Robust Broadcast

... Of course, a higher number of nodes contending will yield a higher probability

of collision, and a higher contention window a lower collision rate. ...

www.hpl.hp.com/personal/Jean_Tourrilhes/ Papers/Robust.Broadcast.html - 22k - Cached - Similar pages

(PDF) Robust Broadcast: Improving the reliability of broadcast ...

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... and a higher contention window a lower collision rate. Section 6.2 details

simulations showing collision rate, for broadcast and unicast messages. ...

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[PDF] Medium access control protocols with fast collision resolution ...

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... contention cycle. To this end, many novel collision reso- ... creasing and decreasing factors of the contention window ...

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Post Enhancement of IEEE 802.11 Distributed Coordination Function with ...

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... time the packet is involved in a collision, contention window ... involved in

a collision, the contention window size for the ...

w3.antd.nist.gov/wctg/manet/docs/VTC2003_Backoff.pdf - Similar pages

ррп CS219: Advanced Topics in Internet Research

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... the back-off counting down continues in the next contention window (fairness).

Contention window size doubles (to a max) when a collision occurs ...

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POF PowerPoint Presentation

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... Decreasing the collision probability at subsequent contention. periods ...

Use much smaller initial (minimum) contention window size ...

mnet.cs.nthu.edu.tw/paper/iki/030410.pdf - Similar pages

POF Call Admission Control for IEEE 802.11 Contention Access Mechanism

File Format: PDF/Adobe Acrobat - View as HTML

 \dots higher collision rates because of smaller contention window. size and higher transmission probability. Fig. 6 shows the \dots

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[PPT] Service differentiation mechanisms for IEEE 802.11-based wireless ...

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... Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA). ... CWI = 2i×CWD, where CWO is the minimum contention window size. 6. March 15, 2005 ...

www.utdalias.edu/~ksrikant/pub_files/WCNC05/WCNC05.ppt - Similar.pages

rooci 1

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... When a collision is detected, the CW is doubled according to CW ... Each class

differs by varying the minimum contention window (CWmin) and the ... www.uidallas.edu/~ski023000/QOS%20report.doc - Similar pages

(PDP) Evaluation of Quality of Service Schemes for IEEE 802.11 Wireless LANs

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... Upon detection of a collision, a. new backoff time is chosen and the backoff

procedure starts, over. Because the contention window is exponentially in-... www.sm.luih se/osee/osn/ publications/ion2001lindgren.pdf - Similar pages

[PS] Evaluation of Quality of Service Schemes for IEEE 802.11 Wireless ...

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... anduses a Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)

... defining the minimum contention window, CWmin. Afterthe medium has been ...

www.sm.luth.se/-dugdate/publications/icn2001lindgren.ps - Similar pages

An Effective Collision Resolution Mechanism for Wireless LAN

... p. 18 An Effective Collision Resolution Mechanism for Wireless LAN ...

the ${\bf contention}$ window to the initial value after each success transmission, ...

csdl.computer.org/comp/proceedings/ iconmc/2003/2033/00/20330018abs.htm - Similar pages

Network Computing | Workshop | Infrastructure | Anatomy of IEEE ...

... and the beginning of the next frame is known as the contention window. ...

F and G) hears this response and is made aware of the potential collision, ...

www.networkcomputing.com/ 1115/1115ws22.html?is=NCJS_1115bt - 61k - Cached - Similar.pages

[PDF] Microsoft PowerPoint - Chapt-06.ppt

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... Contention protocols resolve a collision after it occurs. ... backoff counter)

within a contention window to wait before, transmitting its frame. ...

www.cs.gsu.edu/~cscyip/csc6221/Chapt-05.pdf - Similar pages

[PPT] Channel Access Protocols

File Format: Microsoft Powerpoint 97 - View as HTML

... Because of the collision station A increments its contention window size and

chooses a backoff time of 7. CWC. 802.11 DCF - Markov Chain Model ...

www.cs.gsu.edu/~ososzz/ CS8221/ChannelAccessProtoccis.ppt - Similar.psges

(POF) Indoor WLAN Design

file Format: PDF/Adobe Acrobat

... The MAC uses Carrier Sense Multiple Access with Collision Avoid- ... called the contention window or backoff window follows the. DIFS. Previous frame ...

www.kjhole.com/Standards/WIFI/WIFI-PDF/WLAN3alt.pdf - Similar.pages

ред xanthippi.ceid.upatras.gr/courses/mobi net/Lecture...

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... IEEE 802.11 DCF: contention window cw is chosen dynamically depending on collision occurrence. Binary Exponential Backoff in DCF ...

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[POF] Enhanced Backoff Scheme in CSMA/CA for IEEE 802,11

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... throughput since it can decrease the chance of collision by, adaptively adjusting the contention window. Third, the, saturation throughput depends on ...

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ppp Improved priority access, bandwidth allocation and traffic ...

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... contention window adjustment. The proposed collision resolution, scheme separates and resolves collisions for different traffic ...

viola.usc.edu/newextra/Publication/ PDF/selected/2003_IEEE-TB_Kuc.pdf - Similar pages

Aperto Networks Solutions

... Most other TDMA systems use binary backoff for contention resolution, that

blindly doubles the contention window with each collision. ...

www.apertonet.com/en/solutions/solutions/gaming.shtml - 21k - Apr 17, 2005 - Cached - Similar pages

Lecture3: Advanced Computer Networks

- ... transmission if more than one node access the same medium, collision occurs.
- ... The contention window is divided into consecutively numbered slots. ...

www.cse.lifk.ac.in/users/braman/ courses/cs625-fall2003/iac-notes/lec-notes03.html - 10k - Cached - Similar pages

POF Per-Flow Service Differentiation via Virtual MAC

File Forest: PDF/Adobe Acrobat

... by adjusting the size of the Contention Window (CW) of. each traffic class

accordingly to ... variation, packet collision rate and packet loss rate ...

www-sop_inria_fr/mistral/personnel/_K.Avrachenkov/WOpt/PDFflles/domi49.pdf - Similar_pages

[PDF] Modeling and Analysis of Slow CW Decrease for IEEE 802.11 WLAN

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... Since the contention window, doubles after each collision, we can write W ...

special case, since after a collision the contention window ...

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[PDF] Performance comparison of the IEEE 802.11 and Alr infrared ...

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... contention. If an RTS collision occurs, the CAS. window for the RTS retry is

increased by an. adjustment value. Following a successful transmission, ...

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[PDF] A Closed Queueing Network Model for Describing the Backoff ...

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... contention window (CW. max.) size when a collision occurs, while it. resets its

CW to the minimum value (CW. min.) size after a ...

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... but adopts collision avoidance, rather than collision detection ... types are

associated with different inter frame spacing and contention window ...

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root QoS Domain Agent based QoS control in Mobile Wireless internet

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... Access with Collision Avoidance) with binary slotted exponential backoff, ...

except using the dynamic minimum Contention Window (CWmin) instead of ...

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CommsDesign - Inside 802.11e: Making QoS a Reality over WLAN ...

... While wired networks implement collision detection on the medium ... transmit will generate a random number within a range called the contention window. ...

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[PPT] Outline of Topics

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... Backoff Window. Contention Window. Next Frame. Defer Access ... point: the

instance of the completion of a successful transmissions and/or a collision ...

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гроп Performance of collision avoidance protocols in single-channel ad ...

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... show that the sender-initiated collision-avoidance scheme ... MAC protocol in

which the contention window used in de-. ciding backoff time is fixed. ...

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(POF) Offered Load Control in IEEE802.11 Multi-hop Ad-hoc Networks

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... scenario favors node 4, and the chance of collision at. node 2 can not be

reduced even though ... contention window, since adjacent nodes can count down ...

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Cisco Aironet Access Points

... For each class of service, enter the maximum contention window value.

The minimum contention window value is doubled each time a collision occurs until ...

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Cisco Aironet Access Points

... For each access category, enter the maximum contention window value. The minimum

contention window value is doubled each time a collision occurs until ...

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... Contention Window (CW). If the channel is idle for the backoff ... over a specified window. Since the probability. of a collision decreases with each ...

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... When the collision rate is high, the contention. window size of each flow will

be changed slowly to avoid, further collisions. When the higher priority ...

labs.ee.psu.edu/faculty/yener/papers/icc04_hao.pdf - Similar pages

(POF) Slide 1

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... collision avoidance (CSMA/CA). • Used During Contention period (CP) ...

off is repeated and CW (contention window) is. doubled ...

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Wiki - Main - Z25Paper7

... increasing the initial contention window size and inter-frame space for ...

Let window-increasing factor change with the backoff stage when collision ...

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... Contention Window (SCW) that allows selecting backoff counter ... based on

the actual average collision rate. The recently proposed ...

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[РРП TCP for Mobile and Wireless Hosts

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... IEEE 802.11 DCF: contention window cw is chosen dynamically depending on

collision occurrence. 43. Binary Exponential Backoff in DCF ...

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... transmission in one round of contention, its latency. is . If there is a

collision, ... but increases the contention window size using bounded expo- ...

nms.lcs.mii.edu/papers/tay_et_al-jsac04.pdf - Similar pages

(poc) Chapter 8

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... Since collision detection is not efficient for wireless channel, a mechanism

to avoid ... Due to this reason, it is called as contention window (CW). ...

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гред Coordinated Network Scheduling: A Framework for End-to-End Service

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... Dual contention window: modulate aggressiveness according to estimated rank

... Suppose that the third packet is seriously delayed due to collision or ...

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Google Search: collision contention window (POF) CRMA: a Novel Multiple Access Protocol for Power Efficient ... File Format: PDF/Adobe Acrobat ... the initial size of the Contention Window by assuming a ... a high collision probability. In high-congested conditions ... doi.ieeecomputersociety.org/10.1109/AINA.2005.146 - Similar pages PPR Analyzing and Improving the IEEE 802.11-MAC Protocol for Wireless LANs File Format: PDF/Adobe Acrobat ... with collision avoidance that applies a rotating, backoff, window mechanism, ... early in the contention window since this small backoff ... doi.leeecomputersociety.org/10.1109/MASCOT.1996.501018 - Similar pages 802,11 MAC layer ... Multiple Access/Collision Avoidance) NOTE: Classic Ethernet uses CSMA/CD ... The transmit window allows for the ACK ie CONTENTION period starts after ... www.zytrex.com/tech/wireless/802_mac.htm - 26k - Cached - Similar pages IPDFI IEEE 802.11e Contention-Based Channel Access (EDCF) Performance ... File Format: PDF/Adobe Acrobat - View as HTML ... on Carrier Sense Multiple Access with Collision Avoidance. (CSMA/CA). ... Each station maintains a contention window (CW), which ... www.iks.inf.ethz.ch/education/ss04/seminar/21.pdf - Similar pages [PDF] Title of paper in 14 standard font and bolded File Format: PDF/Adobe Acrobat - View as HTML ... and a collision occurs, the contention window is doubled, and a new backoff procedure is started. This process, continues until the successful ... atnac2003.atcro.com/ORALS/WALL.pdf - Similar pages [POF] Long Distance Wireless Communication Principally satellite ... File Format: PDF/Adobe Acrobat - View as HTML ... added optional feature: CA (collision avoidance). Two modes for MAC operation: ... If due to timeout, double contention window (CW) ... www.cs.purdue.edu/nomes/park/cs422-wireless-2.pdf - Similar pages грр Random Access Control in Wireless Networks File Format Microsoft Powerpoint 97 - View as HTML ... collision -> Failure of a transmission and the need for retransmission ... the station exponentially increases the maximum contention window size, CW, ... www.cs.purdue.edu/homes/wu/HTML/falk/cs890.ppt - Similar pages [PDF] Analysis of IEEE 802.11 Distributed Coordination Analysis of IEEE ... File Format: PDF/Adobe Acrobat - View as HTML

... contention window sizes of different traffic of different traffic ...

Packet Collision Rates. p. 1,2. Minimum Contention Window Sizes W ...

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(PDF) GU LAYOUT

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... off time, in the range of 0 to contention window. (CW). The backoff timer decrements the backoff ... to reduce the possibility of collision by selecting ... ieeexplore.ieee.org/iel5/ 35/27123/01204758.pdf?arnumber=1204758 - Sinilar pages

[PDF] MAC-PHY enhancement for 802,11b WLAN systems via cross-layering ... File Format: PDF/Adobe Acrobat ... of contention and collision. On the other hand, when. RTS/CTS is applied, 802.11 MAC is ... PHY state of the Contention Window. Indeed, together with ... leasystore.ieae.org/iel5/ 9004/28569/01285126.pdf?arnumber=1285126 - Similar pages

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... As already discussed, after each collision the contention window CW is doubled,

until it reaches an upper bound CWmax. Backoff times are set to a ... www.ics.forth.gr/netiab/ publications/2003.TR322.sd_802.11.pdf - <u>Similar pages</u>

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... CW=Contention Window. Defer Access. Backoff after Defer. NAV. (RTS). (CTS). Previous Page ... Real Collision detection would require a full- ...

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... Solve: How to do carrier sense and collision detection? ... The Contention

Window is divided into time slots. The length of each slot is medium ...

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max.) after a collision occurs and resets its CW to ...

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... If the transmission is not successful, then a contention window ... it is

relatively more expensive to recover from a collision (eg two or more nodes ...

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[POF] QoS Enhancement in IEEE802.11 Wireless Local Area Networks

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... (Contention Window). The backoff timer. decrements the backoff time each time

the medium ... to reduce the possibility of collision by selecting a ...

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IPDF EVALUATION OF EDCF MECHANISM FOR QoS IN IEEE802.11 WIRELESS NETWORKS

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... Access with Collision Avoidance) protocol, and it is, best known for asynchronous

data transmission (\dots This is done by setting the contention window \dots

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[PDF] Microsoft PowerPoint - jaseem-icupe-2002.ppt

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... Collision detection is difficult in radio environment. - Stations may interfere

from other ... random back-off time within a contention window [0, CW] ...

www.ee.ryerson.ca/~jaseem/pub/jaseem-icupe-2002.pdf - Similar caces

[Smac-users] Contention Window Size in SMAC

[Smac-users] Contention Window Size in SMAC ... the code doesn't increment the

cw sizes on a collision or decrement them on a successful transmission. ...

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... A slotted contention window for channel acquisition occurs. after each ACK.

... collision and make no transmissions. A new contention win- ...

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... contention window. The backoff timer is decreased as long as the ... a busy

period that is composed of a sequence of collision periods fol- ...

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... contention window. If at least two of the access points ... window but mostly

because the collision is detected much. earlier. ...

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... Due to collision, info may never reach the destination. bottle neck link ...

Hash-controlled access with slotted contention window: ...

spacecom.grc.nasa.gov/icnsconf/ docs/2004/07_session_b3/B3-11-Zhao.pdf - Similar pages

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... contention window, when collision occurs or the medium. is sensed to be busy.

We believe that this will help in bet-, ter tuning the channel access and ...

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(poc) Simple and Efficient Multiple Access

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... Since the Initialization Request message is transmitted during the contention window, it may experience collision and may be corrupted before reaching ...

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ETD-db: ETD database

... the backoff parameters of its collision avoidance mechanism are hard-wired

... and the size of Contention Window (CW) is set again to the minimum value ...

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- ... Multiple Access as well as handshaking mechanisms for collision avoidance (CA)
- ... a back off time period, based on the current Contention Window size. ...

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